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(54) Title: MICELLE-CONTAINING COMPOSITION, THIN FILM THEREOF, AND METHOD FOR PRODUCING THE THIN FILM

(57) Abstract: The present invention provides a composition containing micelles that is useful as an optical material, and a method for producing a thin film using the same. The micelle-containing composition comprises at least micelles of an amphipathic block polymer, a polymer precursor and a dispersion medium therefor, the micelles containing a functional material. The method for producing a thin film comprises the steps of forming on a substrate a layer of the above composition and curing the composition.

### INTERNATIONAL\_SEARCH REPORT

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. CLASSIFICATION OF SUBJECT MATTER PC 7 C08F297/00 C08F IPC 7 C08F287/00. According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) CO8F GO2B CO8L CO9D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X WO 01 77198 A (MOAD CATHERINE LOUISE 1-10 ; CHIEFARI JOHN (AU); MOAD GRAEME (AU); RIZZA) 18 October 2001 (2001-10-18) claims 1,36-50; examples 2-7 X EP 0 227 141 A (AGFA GEVAERT NV) 1 1 July 1987 (1987-07-01) claims A DATABASE WPI 1 - 10Section Ch, Week 200255 Derwent Publications Ltd., London, GB; Class A14, AN 2002-520125 XP002273139 & WO 02 055612 A (DAINIPPON PRINTING CO LTD), 18 July 2002 (2002-07-18) abstract Further documents are listed in the continuation of box C: X Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the International search report 11 March 2004 25/03/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016 Wirth, M

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